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	OTHER DOCUMEN	'Neural Mechar	nisms of Hair Growth Con	trol," JID Symposium,	2(1).01
A LILLY	R. Paus, et al., (August 1997).		Wage	a. Gudies of Alzheime	er Disease," Arch
	M. Yaar, et al	"Human Melar	nocytes as a Mold System t. 1977).	for Studies of Aliza	
	AT8   Dematol., 133:	, "Human Wold. 1287-1291 (Oct	1. 1577)		
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

SLW AU8

Zhai, S., et al., "Activation of p75 nerve growth factor receptor is blocked by cyclic peptides containing a lysine-glycine-alanine (KGA) motif," Jour. of Investigative Dermatology, 110(4):481 (1998)

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SW	AL	JP63183518	28-07-88	Japan (Abstract)				7
	AM	JP63301810	08-12-88	Japan (Abstract)				
	AN	96/12955	2-May-96	PCT				
	AO	92/18149	29-Oct-92	PCT				
	AP	0 584 452 A1	02-Mar-94	EPO				
	AQ	95/21193	10-Aug-95	PCT				
		OTHER DOCUMENTS	(Including Aut	hor, Title, Date, Pertine	nt Pages,	Etc.)		
SLW	AR	Zhai, S. et al., "A Role for P75 Nerve Growth Factor Receptor in Programmed Melanocyte Cell Death After Injury and With Aging,"						
	AS	Yaar, M. et al., "Cloning and Expression of a Novel Nerve Growth Factor Related Molecule in Human Skin," Journal of Investigative Dermatology 100(4):548, Abstract #100 (1993)						
	AT	Yaar, M. et al., "Melanocyte Function in Human Skin is Modulated by Neurotrophic Factors through TRK Receptors," <i>Journal of</i> Investigative Permatology 100(4):511, Abstract #134 (1993)						
EXAMI	NER	Yanda Wig	1	DATE CONSIDERED 10/25	101		1 - 11	

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SILW MADENI	of Human Mel	Zhai, Sen et al., "Nerve Growth Factor (NGF) Enhances Survival of Human Melanocytes," Journal of Investigative Dermatology 101:434, Abstract #279 (1993)				
AV	Physiologic	Stimuli o	lvement of TRK Proto-C f Human Melanocytes," acts, (1992)			
WA			ecia Areata: Clinical logy 96(5), Supplement			
AX	and Differen	Yaar, Mina and Gilchrest, Barbara A, "Human Melanocyte Growth and Differentiation: A Decade of New Data," Journal of Investigative Dermatology 97(4):611-617 (1991)				
AY	Workshop and	Goldsmith, Lowell A., "Summary of Alopecia Areata Research Workshop and Future Research Directions," <i>Journal of Investigative Dermatology 96(5)</i> , Supplement:98S-100S (1991)				
AZ		Friedmann, Peter S., "Clinical and Immunologic Associations of Alopecia Areata," Seminars in Dermatology 4(1):9-15 (1985)				
AR	<sup>2</sup> the Cycling	Stenn, K.S. et al., "Expression of the bcl-2 Protooncogene in the Cycling Adult Mouse Hair Follicle," Journal of Investigative Dermatology 103(1):107-111 (1994)				
AS		Rabizadeh, Shahrooz et al., "Induction of Apoptosis by the Low-Affinity NGF Receptor," Science 261:345-348 (1993)				
AT	Sympathetic	Garcia, Irene et al., "Prevention of Programmed Cell Death of Sympathetic Neurons by the bcl-2 Proto-Oncogene," Science 258:302-304 (1992)				
AU	Selectively	Allsopp, Timothy E. et al., "The Proto-Oncogene bcl-2 Can Selectively Rescue Neurotrophic Factor-Dependent Neurons from Apoptosis," Cell 73:295-307 (1993)				
AV	<sup>72</sup> Fulminant L	Veis, Deborah J. et al., "Bcl-2-Deficient Mice Demonstrate Fulminant Lymphoid Apoptosis, Polycystic Kidneys, and Hypopigmented Hair," Cell 75:229-240 (1993)				
EXAMINER	fanda Wiged		DATE CONSIDERED 10/2 5/6	o i		

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FORM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION		DISCLOSURE CITATION	ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194		
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SLW	AW2	Secretion of Biologic	, "Growth-regulated Sy ally Active Nerve Grow al of Biological Chemi	th Factor by Human		
	AX2		vidence for Nerve Grow Human Epidermis," <i>Jour</i>			
	AY2	Barinaga, Marcia "Dea How?" <i>Science 259</i> :762	th Gives Birth to the -763 (1993)	Nervous System. But		
	AZ2	_	et al., "Bcl-2 Function optosis," Cell 75:241-	l l		
	AR3	Di Marco, Eddi et al., "Molecular Cloning of trkE, a Novel trk-related Putative Tyrosine Kinase Receptor Isolated from Normal Human Keratinocytes and Widely Expressed by Normal Human Tissues," Journal of Biological Chemistry 268(32):24290-24295 (1993)				
	AS3	Peacocke, Monica et al., "Induction of nerve growth factor receptors on cultured human melanocytes," Proc. Natl. Acad. Sci. USA 85:5282-5286 (1988)				
	AT3	Barinaga, Marcia, "Cell Suicide: By ICE, Not Fire," Science 263:754-756 (1994)				
	AU3	Paus, R. et al., "Telogen skin contains an inhibitor of hair growth," British Journal of Dermatology 122:777-784 (1990)				
	AV3	Ross, Alonzo H. et al., "Characterization of nerve growth factor receptor in neural crest tumors using monoclonal antibodies," Proc. Natl. Acad. Sci. USA 81:6681-6685 (1984)				
	AW3	Halaban, R. et al., "Basic Fibroblast Growth Factor from Human Keratinocytes Is a Natural Mitogen for Melanocytes," Journal of Cell Biology 107:1611-1619 (1988)				
	AX3	Halaban, Ruth et al., "bFGF is the Putative Natural Growth Factor For Human Melanocytes," In Vitro Cellular & Developmental Biology 23(1):47-52 (1987)				
EXAMINER DATE CONSIDERED (1/25/0)						

FORM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION		DISCLOSURE CITATION	ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194			
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720	1 6 1998 50 E	THER DOCUMENTS (Including Au	thor, Title, Date, Pertinent	Pages, Etc.)			
SLL	THANK THE CITY	·	"Human β-nerve growth factor gene ogous to that of mouse," <i>Nature 303</i> :821-				
	AZ3	transfer: high titre selection markers and	Morgenstern, Jay P. and Land, Hartmut, "Advanced mammalian gene transfer: high titre retroviral vectors with multiple drug selection markers and a complementary helper-free packaging cell line," Nucleic Acids Research 18(12):3587-3596 (1990)				
	AR4	Johnson, Dan et al., Receptor," <i>Cell</i> 47:54	"Expression and Struct 5-554 (1986)	ure of the Human NGF			
	AS4	Heuer, Josef G. et al., "Structure and Developmental Expression of the Chicken NGF Receptor," Developmental Biology 137:287-304 (1990)					
	AT4	Large, Thomas H. et al., "Structure and Developmental Expression of the Nerve Growth Factor Receptor in the Chicken Central Nervous System," Neuron 2:1123-1134 (1989)					
	AU4	Radeke, Monte J. et al., "Gene transfer and molecular cloning of the rat nerve growth factor receptor," <i>Nature 325</i> :593-597 (1987)					
	AV4	Mitchell, Andrew J. and Krull, Edward A., "Alopecia areata: Pathogenesis and treatment," Journal of the American Academy of Dermatology 11(5)I:763-775 (1984)					
	AW4	Klein, Rüdiger et al., "The trk Proto-Oncogene Encodes a Receptor for Nerve Growth Factor," Cell 65:189-197 (1991)					
	AX4	Maisonpierre, Peter C. et al., "Neurotrophin-3: A Neurotrophic Factor Related to NGF and BDNF," Science 247:1446-1451 (1990)					
	AY4	Chao, Moses V. et al., "Gene Transfer and Molecular Cloning of the Human NGF Receptor," Science 232:518-521 (1986)					
1	AZ4	Headington, John T., "Transverse Microscopic Anatomy of the Human Scalp," Arch. Dermatol. 120:449-456 (1984)					
EXAMIN	EXAMINER Janda Might DATE CONSIDERED 10/25/01						

FORM PTO-1449 (REV. 7-80) INFORMATION DISCLOSURE CITATION		DISCLOSURE CITATION	ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194		
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OC1 5	β 1998 <sup>3</sup>	THER DOCUMENTS (Including Au	ithor, Title, Date, Pertinent	t Pages, Etc.)		
Sign	H ABIRUM 24		"Hair anatomy for the emy of Dermatology 25(1			
	AS5	Gilchrest, Barbara A. FL., CRC Press, Inc.)	, "Skin and Aging Proc pp. 19-20 (1984)	esses," (Boca Raton,		
	AT5	Dermatology in Genera	et al., "Biology of Ha al Medicine, Thomas B. ster 19, (NY: McGraw-Hi (1993)	Fitzpatrick et al.		
	AU5	Bertolino, Arthur P. and Freedberg, Irwin M., "Hair," In Dermatology in General Medicine, Thomas B. Fitzpatrick et al. (Ed.), Section 10, Chapter 61, (NY: McGraw-Hill, Inc.) pp. 671-673, Fourth Edition, (1993)				
	AV5	Marchetti, D., et al., "Nerve Growth Factor Effects on Human and Mouse Melanoma Cell Invation and Heparanase Production,"  Int. J. Cancer, 55:692-699 (1993).				
	AW5	Spritz, R.A., et al., "Inhibition of Proliferation of Human Melanocytes by a KIT Antisense Oligodeoxynucleotide: Implications for Human Piebaldism and Mouse Dominant White Spotting (W), " J. Invest. Dermatology, 103(2):148-150 (1994).				
	AX5	Nataraj, A., et al., "bcl-2 Oncogene Blocks Differentiation and Extends Viability But Does Not Immortalize Normal Human Keratinocytes," Intl. J. Oncology, 4:1211-1218 (1994).				
	AY5	Nakayama, K., et al., "Targeted Disruption of Bcl2αβ in Mice: Occurance of Gray Hair, Polycystic Kidney Disease, and Lymphocytopenia," <i>Proc. Natl. Acad. Sci. USA, 91</i> :3700-3704 (1994).				
	AZ5	Ibáñez, C., et al., "Disruption of the Low Affinity Receptor-Binding Site of NGF Allows Neuronal Survival and Differentiation by Binding to the trk Gene Product," Cell, 69:329-341 (1992).				
EXAMIN	EXAMINER DATE CONSIDERED 10/25/01					

FORM PTO-1449 (REV. 7-80)			ATTY. DOCKET NO. BU94-15A2	SERIAL NO. 09/018,194		
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720	β 1998 g	THER DOCUMENTS (Including Au	thor, Title, Date, Pertinent			
SLV	KS. I	Lu, K. and Campisi, J., "Ras Proteins are Essential and Selective for the Action of Insulin-Like Growth Factor 1 Lain the G¹ Phase of the Cell Cycle in BALB/c Murine Fibroblasts," Proc. Natl. Acad. Sci. USA, 89:3889-3893 (199				
	AS6		man Nevocellular Nevus t Membrane Components, 2 (1988).			
	AT6	Tsujimoto, Y. and Croce, C.M., "Analysis of the Structure, Transcripts, and Protein Products, of bcl-2, The Gene Involvedin Human Follicular Lymphoma," Proc. Natl. Acad. Sci. USA, 83:5214-5218 (1986).				
No. 10 Television (Commission of the Commission	AU6 :	International Search Report, International Application No.: PCT/US97/94966, mailed August 28, 1997				
	AV6	Yaar, M., et al., "The trk Family of Receptors Mediates Nerve Growth Factor and Neurotrophin-3 Effects in Melanocytes," J. Clin. Invest., 94(4):1550-1562 (1994).				
	AW6	Lapchak, P.A., "Nerve Growth Factor Pharmacology: Application to the Treatment of Cholinergic Neurodegeneration in Alzheimer's Disease," Exper. Neurology, 124:16-20 (1993).				
	AX6	Casaccia-Bonnefil, P., et al., "Death of Oligodendrocytes Mediated by the Interaction of Nerve Growth Factor With its Receptor p57," Nature, 383:716-719 (1996).				
	AY6	Huber, J.L., et al., "A Potential Interaction of p75 and trkA NGF Receptos Revealed by Affinity Crosslinking and Immunoprecipitation," J. Neuroscience Res., 40:557-563 (1995).				
:	AZ6	Mahadeo, D., et al., "High Affinity Nerve Growth Factor Binding Displays a Faster Rate of Association Than p140 <sup>trk</sup> Binding," <i>J. Biol. Chem., 269</i> (9): 6884-6891 (1994).				
	AR7	Frade, J.M., et al., "Induction of Cell Death by Endogenous Nerve Growth Factor Through its p75 Receptor," Nature, 383:166-168 (1996).				
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SALVIENTA TO	ADEMACH O		Reams, W.H., "Effects of Nerve-Growth Promoting Protein on Murine Integument," <i>J. Invest. Dermatology</i> , 49(6):552-558 (1967).				
	AT7		e Role of Nerve Growth te Apoptosis," Abstrac 572 (1995)	<b>.</b>			
	AU7 €	Cotman, C.W. and Anderson, A.J., "A Potential Role for Apoptosis in Neurodegeneration and Alzheimer's Disease," Mol. Neurobiol., 10:19-45 (1995)					
	AV7	Su, J.H., et al., "Immunohistochemical evidence for apoptosis in Alzheimer's disease," Neuroreport, 5:2529-2533 (1994)					
	AW7	Oltvai, Z.N, et al., "Bcl-2 Heterodimerizes In Vivo with a Conserved Homolog, Bax, That Accelerates Programed Cell Death," Cell, 74:609-619 (1993)					
	AX7 <b>●</b>	Larkfors, L., et al. "Decreased level of nerve growth factor (NGF) and its messenger RNA in the aged rat brain," Brain Res., 427:55-60; (1987)					
	AY7 <b>4</b>	Botchkarev, V.A., "New Roles for Neurotrophin-3, Neurotrophin-4 and Brain Derived Neurotrophic Factor: Involvement in Hair Growth Control," <i>J Invest Dermatol.</i> , 110(4):48, Abstract #51 (1998)					
	AZ7	Botchkarev, V.A., et al. "Neurotrophin-3 Involvement in the Regualtion of Hair Follicle Morphogensis," J Invest. Dermatol., 111:279-285, (1998)					
	AR8	Paus, R., Lüftl, M., Czarnetzki, B.M. " Nerve growth factor modulates keratinocyte proliferation in murine skin organ culture," <i>Brit. J. Dermatol. 130:</i> 174-180 (1994)					
EXAMIN	EXAMINER DATE CONSIDERED (UZS/C)						